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<120> PROTEIN EXPRESSION VECTOR AND USE THEREOF

<130> UEMURA=8

<140> 09/856,050

<141> 2001-05-17

<150> JP 10/331515

<151> 1998-11-20

<150> PCT/JP99/06474

<151> 1999-11-19

<160> 22

<170> PatentIn version 3.1

<210> 1

<211> 117

<212> DNA

<213> Artificial Sequence

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<223> Designed oligonucleotide to construct plasmid pTrypHis

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tgctgcccc tttcaccatc accatcacca tgacgacgat gacaaggatc cgaattc 117

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gaattcggat ccttgatcgc gtcgtcatgg tgatggatgat ggtgaaagg ggcagcaaca 60

gcagcagcaa caaaggtaag gatcaggagt agattcatgg tggttgctagc caagctt 117

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<210> 5
 <211> 26
 <212> DNA
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 <223> Designed oligonucleotide primer to amplify a portion of plasmid p TrypHis/Neurosin

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 <400> 6

tcctcgagac ttggcctgaa tggtttt

27

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 TrypHis/Neurosin

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26

<210> 8
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 <212> DNA
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 aagcttggct agcaacacca tgaatctact cctgacccctt acctttgttg ctgctgctgt
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60

99

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 aggatcagga gtagattcat ggtgttgcta gccaaagctt

60

99

<210> 10
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 <212> DNA
 <213> Artificial Sequence

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1 5 10 15

gcc ctc tac acc tcg ggc cac ttg ctc tgt ggt ggg gtc ctt atc cat 96
Ala Leu Tyr Thr Ser Gly His Leu Leu Cys Gly Gly Val Leu Ile His
20 25 30

cca ctg tgg gtc ctc aca gct gcc cac tgc aaa aaa ccg aat ctt cag 144
Pro Leu Trp Val Leu Thr Ala Ala His Cys Lys Lys Pro Asn Leu Gln
35 40 45

gtc ttc ctg ggg aag cat aac ctt cgg caa agg gag agt tcc cag gag 192
Val Phe Leu Gly Lys His Asn Leu Arg Gln Arg Glu Ser Ser Gln Glu
50 55 60

cag agt tct gtt gtc cgg gct gtg atc cac cct gac tat gat gcc gcc 240
Gln Ser Ser Val Val Arg Ala Val Ile His Pro Asp Tyr Asp Ala Ala
65 70 75 80

agc cat gac cag gac atc atg ctg ttg cgc ctg gca cgc cca gcc aaa 288
Ser His Asp Gln Asp Ile Met Leu Leu Arg Leu Ala Arg Pro Ala Lys
85 90 95

ctc tct gaa ctc atc cag ccc ctt ccc ctg gag agg gac tgc tca gcc 336
Leu Ser Glu Leu Ile Gln Pro Leu Pro Leu Glu Arg Asp Cys Ser Ala
100 105 110

aac acc acc agc tgc cac atc ctg ggc tgg ggc aag aca gca gat ggt 384
Asn Thr Thr Ser Cys His Ile Leu Gly Trp Gly Lys Thr Ala Asp Gly
115 120 125

gat ttc cct gac acc atc cag tgt gca tac atc cac ctg gtg tcc cgt 432
Asp Phe Pro Asp Thr Ile Gln Cys Ala Tyr Ile His Leu Val Ser Arg
130 135 140

gag gag tgt gag cat gcc tac cct ggc cag atc acc cag aac atg ttg 480
Glu Glu Cys Glu His Ala Tyr Pro Gly Gln Ile Thr Gln Asn Met Leu
145 150 155 160

tgt gct ggg gat gag aag tac ggg aag gat tcc tgc cag ggt gat tct 528
Cys Ala Gly Asp Glu Lys Tyr Gly Lys Asp Ser Cys Gln Gly Asp Ser
165 170 175

ggg ggt ccg ctg gta tgt gga gac cac ctc cga ggc ctt gtg tca tgg 576
Gly Gly Pro Leu Val Cys Gly Asp His Leu Arg Gly Leu Val Ser Trp

180	185	190	
ggt aac atc ccc tgt gga tca	aag gag aag cca gga gtc tac acc aac		624
Gly Asn Ile Pro Cys Gly Ser	Lys Glu Lys Pro Gly Val Tyr Thr Asn		
195	200	205	
gtc tgc aga tac acg aac tgg	atc caa aaa acc att cag gcc aag tga		672
Val Cys Arg Tyr Thr Asn Trp	Ile Gln Lys Thr Ile Gln Ala Lys		
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Ala Leu Tyr Thr Ser Gly His Leu Leu Cys Gly Gly Val Leu Ile His			
20	25	30	
Pro Leu Trp Val Leu Thr Ala Ala His Cys Lys Lys Pro Asn Leu Gln			
35	40	45	
Val Phe Leu Gly Lys His Asn Leu Arg Gln Arg Glu Ser Ser Gln Glu			
50	55	60	
Gln Ser Ser Val Val Arg Ala Val Ile His Pro Asp Tyr Asp Ala Ala			
65	70	75	80
Ser His Asp Gln Asp Ile Met Leu Leu Arg Leu Ala Arg Pro Ala Lys			
85	90	95	
Leu Ser Glu Leu Ile Gln Pro Leu Pro Leu Glu Arg Asp Cys Ser Ala			
100	105	110	
Asn Thr Thr Ser Cys His Ile Leu Gly Trp Gly Lys Thr Ala Asp Gly			
115	120	125	
Asp Phe Pro Asp Thr Ile Gln Cys Ala Tyr Ile His Leu Val Ser Arg			
130	135	140	
Glu Glu Cys Glu His Ala Tyr Pro Gly Gln Ile Thr Gln Asn Met Leu			
145	150	155	160
Cys Ala Gly Asp Glu Lys Tyr Gly Lys Asp Ser Cys Gln Gly Asp Ser			
165	170	175	

Gly Gly Pro Leu Val Cys Gly Asp His Leu Arg Gly Leu Val Ser Trp
180 185 190

Gly Asn Ile Pro Cys Gly Ser Lys Glu Lys Pro Gly Val Tyr Thr Asn
195 200 205

Val Cys Arg Tyr Thr Asn Trp Ile Gln Lys Thr Ile Gln Ala Lys
210 215 220

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Met Glu Thr Asp Thr Leu Leu Leu Trp Val Leu Leu Leu Trp Val Pro
1 5 10 15
ggt tcc act ggt gac gcg gcc cag ccg gcc agg cgc gcg cgc cgt acg 96
Gly Ser Thr Gly Asp Ala Ala Gln Pro Ala Arg Arg Ala Arg Arg Thr
20 25 30
aag ctt cac cat cac cat cac cat gac gac gat gac aag 135
Lys Leu His His His His His Asp Asp Asp Asp Lys
35 40 45

<210> 17
<211> 45
<212> PRT
<213> Homo sapiens

<220>
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<400> 17
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1 5 10 15

Gly Ser Thr Gly Asp Ala Ala Gln Pro Ala Arg Arg Ala Arg Arg Thr
20 25 30

Lys Leu His His His His His His Asp Asp Asp Asp Lys
35 40 45

<210> 18
<211> 120

<212> DNA
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<222> (1)..(120)
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Met Asn Leu Leu Leu Ile Leu Thr Phe Val Ala Ala Ala Val Ala Ala
1 5 10 15
ccc ttt gat gat gat gac aag ttg gtg cat ggc aag ctt cac cat cac 96
Pro Phe Asp Asp Asp Asp Lys Leu Val His Gly Lys Leu His His His
20 25 30
cat cac cat gac gac gat gac aag 120
His His His Asp Asp Asp Asp Lys
35 40

<210> 19
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<212> PRT
<213> Homo sapiens

<220>
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Pro Phe Asp Asp Asp Asp Lys Leu Val His Gly Lys Leu His His His
20 25 30
His His His Asp Asp Asp Asp Lys
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<400> 20
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<210> 21
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Ile Glu Gly Arg
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<210> 22
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<400> 22

Glu Asn Leu Tyr Phe Gln
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